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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION		
09/929,277	08/15/2001	Keith Bentley	36488-174716 8201		
75	90 12/15/2005		EXAMINER		
Venable			BLACK	BLACK, LINH	
P.O. Box 34385 Washington, Do	20043-9998		ART UNIT	PAPER NUMBER	
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DATE MAILED: 12/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicatio	n No.	Applicant(s)				
Office Action Summary		09/929,27	7	BENTLEY, KEITH				
		Examiner		Art Unit				
		LINH BLAC	CK	2167				
Period fo	The MAILING DATE of this communication a or Reply	appears on the	cover sheet with the c	orrespondence ad	ldress			
WHI(- Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REF CHEVER IS LONGER, FROM THE MAILING asions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory perior to reply within the set or extended period for reply will, by state reply received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	DATE OF TH 1.136(a). In no ever od will apply and will tute, cause the appli	IS COMMUNICATION nt, however, may a reply be tim expire SIX (6) MONTHS from cation to become ABANDONEI	J. lely filed the mailing date of this co O (35 U.S.C. § 133).	•			
Status								
1)[Responsive to communication(s) filed on <u>06</u>	Cotober 2005	,					
2a)□	This action is FINAL . 2b)⊠ This action is non-final.							
3)	<u>'</u>							
٥,١ـــ	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
D!!4	·		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
· _	on of Claims							
. 4) ⊠	Claim(s) <u>1-36 and 117</u> is/are pending in the							
_	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	Claim(s) is/are allowed.							
6)⊠	☑ Claim(s) <u>1-36 and 117</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
8)□	8) Claim(s) are subject to restriction and/or election requirement.							
Applicat	on Papers							
9) The specification is objected to by the Examiner.								
10)⊠ The drawing(s) filed on <u>05 October 2001</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
Attachmen				(DTO 110)				
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)		 Interview Summary Paper No(s)/Mail Da 					
3) 🛛 Inforr	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 r No(s)/Mail Date <u>12/2/02</u> .	,	5) Notice of Informal Pa)-152)			

DETAILED ACTION

This communication is in response to the document dated 10/6/2005. Claims 1-36 and 117 are pending in the application. Claims 1, 19, and 117 are independent claims.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-2, 5-7, 10-12, 15-30, 33-36 and 117 are rejected under 35 U.S.C. 103(a) as being unpatentable over Forecast et al. (US 6230200), and further in view of Shebini (4858146).

As per claims 1,19, Forecast et al. teach storing at least one root storage in a storage area; storing a model directory in said at least one root storage; storing at least one model in said model directory – col. 10, lines 35-55; storing a element list and a control element list in said at least one model, said graphic element list having element chunks containing graphic elements and said control element list having element chunks containing control elements – col. 1, line 65 to col. 2, line 30; col. 34, lines 10-35; col. 57, lines 2-65; assigning a pre-selected number of elements to each element chunk;

allocating each element to an element chunk in one of said control element list and said element list – col. 10, line 35 to col. 11, line 25; col. 24, lines 1-64; col. 62, lines 19-37. However, Forecast et al. do not explicitly disclose a graphic element. Shebini teaches automated design of structures using a finite element database – the title; "partial or full modeling of the structure from an interactive graphics work station by using known programs..." – col. 10, lines 49-51; models in a database – col. 14, lines 24-34; list of elements – col. 20, lines 25-39; col. 22, line 65 to col. 23, line 50. Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention to combine Forecast et al.'s and Shebini's teachings to effectively manage large graphic files for better storage/retrieval/manipulation of large files.

As per claims 2, 20, Forecast et al. teach compressing and storing each element chunk – col. 10, lines 56-67; col. 11, lines 32-57; col. 17, lines 25-42. Forecast et al. do not explicitly disclose graphic element list. Shebini teaches models in a database – col. 14, lines 24-34; list of elements – col. 20, lines 25-39; col. 22, line 65 to col. 23, line 50. Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention to combine Forecast et al. and Shebini's teachings to effectively manage large graphic files for better storage/retrieval/manipulation of large files.

As per claims 5, 23 Forecast et al. teach wherein said pre-selected number is a maximum number of elements – col. 17, line 35

to col. 18, line 6; col. 24, lines 11-64.

As per claims 6, 24, Forecast et al. teach

creating an additional element chunk when the number of elements exceeds said preselected number of elements assigned to each element chunk; assigning said preselected number of elements to said additional element chunk; and storing new elements in said additional element chunk – col. 2, lines 52-65; col. 7, lines 9-23; col. 63, lines 5-32; col. 65, lines 13-53.

As per claims 7,25, Forecast et al. teach compressing each new element chunk – col. 10, lines 56-67; col. 11, lines 32-57; col. 17, lines 25-42. Forecast et al. do not explicitly disclose graphic element list. Shebini teaches models in a database – col. 14, lines 24-34; list of elements – col. 20, lines 25-39; col. 22, line 65 to col. 23, line 50. Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention to combine Forecast et al. and Shebini's teachings to effectively manage large graphic files for better storage/retrieval/manipulation of large files.

As per claims 10, 28, Forecast et al. teach wherein said pre-selected number is a maximum number of elements - col. 17, line 35 to col. 18, line 6; col. 24, lines 11-64.

As per claims 11, 29, Forecast et al. do not explicitly teach associating a header with said at least one root storage. Shebini teaches models in a database – col. 14, lines

24-34; list of elements – col. 20, lines 25-39; col. 22, line 65 to col. 23, line 50; headers in models – col. 13, lines 10-21. Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention to combine Forecast et al.'s and Shebini's teachings to effectively manage large graphic files for better storage/retrieval/manipulation of large files.

As per claims 12, 30, Forecast et al. teach wherein the computer system is the Internet – col. 7, lines 3-8.

As per claims 15, 33 Forecast et al. teach wherein said storage area is a file – col. 10, lines 35-46.

As per claims 16, 34, Forecast et al. do not teach a computer aided design program. Shebini teaches models in a database – col. 14, lines 24-34; fig. 1, item 10; col. 16, lines 5-66.

As per claims 17, 35, Forecast et al. teach storing at least one root storage in a storage area – col. 10, lines 35-55; session information – col. 17, lines 25-63; col. 45, line 22 to col. 46, line 65; "unique" handle to the stream – col. 38, lines 25-62; Forecast et al. do not explicitly teach header stream. Shebini teaches models in a database – col. 14, lines 24-34; list of elements – col. 20, lines 25-39; col. 22, line 65 to col. 23, line 50; headers in models – col. 13, lines 10-21. Thus, it would have been obvious to one of

ordinary skill in the art at the time of the invention to combine Forecast et al.'s and Shebini's teachings to effectively manage large graphic files for better storage/retrieval/manipulation of large files.

As per claims 18, 36, Forecast et al. teach

the step of storing in the root storage at least one of a stream and a storage, neither of which are contained in the model directory – col. 6, lines 30-57; col. 10, lines 35-67.

As per claim 117, Forecast et al. teach

storing at least one root storage in the main storage area; storing a model directory in said at least one root storage; storing at least one model element list in each model directory - col. 10, lines 35-55; compressing and storing each element chunk – col. 10, lines 56-67; col. 11, lines 32-57; col. 17, lines 25-42; backup for files maintained on disk in the cached disk array – col. 7, lines 47-67; col. 27, line 34 to col. 28, line 33; modified elements/files – col. 20, lines 34-65; reading compressed data – col. 7, lines 38-46. However, Forecast et al. do not explicitly disclose a graphic element. Shebini teaches automated design of structures using a finite element database – the title; "partial or full modeling of the structure from an interactive graphics work station by using known programs..." – col. 10, lines 49-51; models in a database – col. 14, lines 24-34; list of elements – col. 20, lines 25-39; col. 22, line 65 to col. 23, line 50. Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention to combine

Forecast et al.'s and Shebini's teachings to effectively manage large graphic files for better storage/retrieval/manipulation of large files.

Claims 3-4, 8-9, 13-14 and 31-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Forecast et al. (US 6230200), Shebini (4858146), and further in view of Ginter et al. (us 6948070).

As per claims 3-4, and 8-9, Forecast et al. teach compressing and storing each element chunk – col. 10, lines 56-67; col. 11, lines 32-57; col. 17, lines 25-42. Forecast et al. do not explicitly disclose graphic element list. Shebini teaches models in a database – col. 14, lines 24-34; list of elements – col. 20, lines 25-39; col. 22, line 65 to col. 23, line 50. However, Forecast et al. and Shebini et al. do not explicitly disclose encrypting each element chunk. Ginter et al. teach encrypting of elements – col. 8, lines 60-67; encrypt/decrypt engine – col. 67, lines 9-55; compression/decompression engine – col. 68, lines 5-21. Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention to combine Forecast et al. and Shebini's teachings to effectively and securely manage large graphic files for better storage/retrieval/manipulation of large files.

As per claims 13-14, 31-32, Forecast et al. teach wherein the computer system is the Internet – col. 7, lines 3-8. However, Forecast et al. and Shebini do not explicitly teach

local are network. Ginter et al. teach communication networks such as LAN, WAN, etc...- col. 160, lines 9-25. Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention to combine Forecast et al.'s, Shebini's, and Ginter et al.'s teachings to effectively and securely manage and transfer large graphic files.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LINH BLACK whose telephone number is 571-272-4106. The examiner can normally be reached on 8am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Safet Metjahic can be reached on 571-272-4023. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LINH BLAC Examiner Art Unit 2163

December 9, 2005.

Primary Examiner